



1968 Corvette

THE TRUE SPORTS CAR FROM CHEVROLET





Detachable glass rear window.



There's a special hood for 427's.



Go hardtop! The Corvette Sting Ray is for those who appreciate the true sports kind of car — and even for those who don't right now. It's that special kind of an automobile that comes along about once every generation to totally arrest the imagination of car buffs. In 15 years of Corvettes the car has not only driven into prominence in the sports car field, but has also been a forerunner of some exciting and practical automobile innovation. For 1968,

the mechanics of Sting Ray have been improved and refined (it's still basically made for people who feel that the best part of living is driving), and this, obviously, is a most inspiring year for design. Consider: the '68 Sting Ray Coupe is a hardtop and more. Uncommon removable sections over pilot and navigator lift out for open air moving. A nearly vertical glass rear window tucks out of the way into a neat compartment in the luggage area. The effect is a flow-through cochère roof that's never been seen on an American production sports car until now.

Long, low profile with blunt styling brings up the rear per the continental GT tradition. The aerodynamic design features a spoiler back there, too. Behind front wheels, functional louvers help keep the horses cool. Wraparound front and rear bumpers plus line-smoothing hideaway features help make Corvette a trim one style-wise. On the nose end, vacuum-operated headlights glide open automatically when lights are turned on. Windshield wipers aren't around when they shouldn't be. They're hidden under a power-operated panel which actuates when

wipers are turned on or off. Below beltline, wheel trim rings and center caps cover big 7-inch-wide wheels. Special tuck-in treatment goes to the bright metal body sill between the wheels as you can see. Front and rear marker lights add a special touch to the Corvette from the sidelines. *Corvette Sting Ray Coupe . . . a driving new design.*

There are a number of Corvette extra-cost Options and Custom Features featured throughout this book. For a complete rundown see Page 11.



Convertible with vinyl covered removable hardtop you can order.



Hide-A-Way windshield wiper-washer system closed . . . and open.



Uncap it! The Corvette Convertible takes the same basic Sting Ray idea with the lid off and turns in top-down driving for two. And there are three different ways to put the top on it. Soft top (in black, white or beige) or removable hardtop — pick either one as standard or order them together at

extra cost. Black vinyl covering clads the hard one if specified. There's a big story in glass for the '68 Corvette Convertible. Like the Coupe, and like Corvettes since '53, a rustless fiber glass body is basic. Full door glass styling aids visibility as well as appearance and the Convertible's removable hardtop has a glass rear window for the first time. The basic idea is good looks.

Both the Coupe and Convertible start off with a 300-hp Turbo-Fire 327 V8 standard along with a fully synchronized 3-Speed box. Four other engines are available, and with 427 V8's there's a special high-domed hood. Additional transmission choices are 4-Speed, close-ratio 4-Speed and Turbo Hydra-Matic — which breaks into the Corvette power team lineup this year.

For comfort, air flows through Corvette with full door windows closed, thanks to the new Astro Ventilation system with vent-ports in the driver and passenger sides of the instrument panel. For protection, there are safety features like never before (some are listed on page 11). For long-lasting good looks, choose from ten Magic-Mirror finishes. *Corvette '68 . . . all different all over.*



Corvette simulated wood steering wheel and instrumentation.



Three-section storage compartment behind the seats.



Settle down!

The Corvette cockpit is made for the traveling duo. Thin tapered and contoured buckets are very comfortably high-backed. Thin supple all-vinyl upholstery is standard, or you can order genuine leather. Between the seats the center console houses the parking brake lever, gear shift, cigarette lighter and ashtray, thumb-wheel heater controls, air vent controls, and light monitoring system

indicators (to check operation of important outside running lights from inside through space-age fiber optics). The console also stows seat belt buckle straps—twin sets with pushbutton buckles are standard. Coupe equipment also includes twin shoulder belts.

Riding just above the console is the recessed instrument cluster. Here's where the engine tale is told. Water temperature, oil pressure and fuel gauges along with an ammeter and rally clock are positioned for easy reading. Windshield wiper-washer controls are

also in console. And if you order an AM/FM radio—available with or without FM Stereo multiplex—controls are mounted here horizontally. Joining in are new features like door ajar flasher and seat belt reminder light. Directly in front of the driver are the speedometer, tachometer, trip odometer, light controls, ignition lock, high beam indicator, turn signal indicator, brake system warning light—and a 3-spoke steering wheel that looks like wood.

Luxurious deep-twist carpeting looks and feels great. It even

floors the luggage area behind the seats. Also back there is a storage area housing the battery, one for the jack and tools and a glove box with pushbutton key lock.

There's a great deal more to like inside Corvette. One small example is a new ignition alarm system to remind you to take the key when you leave the car. It's activated when driver's door is opened with the key in "accessory" or "off" ignition position. *The Corvette interior . . . most luxurious and sporty ever.*

Take control!

The mechanical part of Corvette.

Frame, chassis and power team members give the enthusiast precise handling of a smooth-but-hustling road car.

Body — A network of steel is integrated with body panels for increased rigidity and strength. The fiber glass body parts are bonded directly to the steel frame rather than to riveted bonding strips as in the past. Both the Sting Ray Coupe and Convertible bodies are given extra strength through increased supports and support reinforcements.

Frame — All-welded, full-length, ladder-constructed with five crossmembers. Side rails and intermediate crossmembers box section; front crossmember box girder section. Eight body mounting points plus two radiator mounts.

Suspension — In front, independent type with coil springs and center mounted shock absorbers. Spherically jointed steering knuckles for each wheel. Reinforced stamped steel control arms with pre-loaded, steel-encased rubber bushings at pivots. Double-acting hydraulic shock absorbers with 1" piston diameter. Link-type stabilizer bar of steel with rubber bushings. Anti-dive control is achieved through the angle of front upper control arm. Rear suspension is fully independent with frame-anchored differential.

Locus of each wheel is established by three links: tubular axle shaft, transverse strut, and longitudinal torque control arm pivoted at frame side rail. Vertical suspension loads taken by transversely positioned nine-leaf spring which is damped by two strut-type shock absorbers.

Rear Axle—Hypoid ring and pinion gear set with 8.375" dia. ring gear.

MPH in final drive with various rear axle ratios per 1000 rpm: 2.73-28.6; 3.08-25.4; 3.36-23.3; 3.55-22.0; 3.70-21.1; and 4.11-19.0 (these figures are calculated for new F-70-15 wide-oval tires without allowance for tire slippage or expansion).

Steering—Semi-reversible, recirculating ball-nut steering gear with GM-developed energy absorbing column. Steering damper attached to relay rod. Dual-position steering arm to tie rod connection permits a choice between street or fast ratio. Turning diameter curb to curb—39.9 ft. Number of turns lock to lock with street steering—3.4; fast—2.92. Power steering is a pump-powered hydraulic cylinder assisting the parallelogram linkage. Number of turns lock to lock with power steering—2.92.

Brakes—First American production car to use disc brakes at all four wheels. Dual circuit master cylinder with pressure differ-

ential warning light. Braking effort is distributed 65% to front and 35% to rear. Construction is cast iron double faced disc spaced by integral radial cooling passages. Sweep area is 461.2 square inches. Linings are woven asbestos; gross lining area is 86.3 square inches. Parking brake is mechanically operated drum type. Drums are cast integral with rear disc rotors and are 6.5" diameter. Linings consist of two shoes per rear wheel with gross lining area of 33.9 square inches. If you like, power brakes with new tandem diaphragm vacuum unit may be specified to lessen the required amount of pedal pressure.

Engines — All Corvette engines use cast iron alloy cylinder blocks. Full-length water jackets surround each cylinder for optimum cooling. Cylinder heads are high chrome cast iron alloy. Total combustion chamber volumes, piston top center, are:

300-hp—4.69-cu.-in.; 350-hp—4.17-cu.-in.; 390- and 400-hp—5.95-cu.-in.; and 435-hp—5.08-cu.-in.

Inlet mani-

fold on both 300- and 350-hp engines is of cast iron alloy. With 390-, 400- and 435-hp, inlet manifold is of cast aluminum alloy. Exhaust manifolds on all engines cast iron alloy. The 327-cu.-in. utilize dual 4-port exhaust flow on each side to a single outlet runner at the center; 427s use dual 4-port extended runners from each port converging to a rear outlet.

are engines

Rugged alloy steel crankshaft with five main bearings in all engines (specially hardened journals and special main bearing caps with four bolt attachment per cap in 435-hp version). Crank arm length: 327—1.625; 427—1.88. There are 6 counterweights on all cranks. Rubber mounted inertia torsional damper. Steel sprocket and chain timing gear. Camshaft in all engines is cast iron alloy with 5 steel-backed babbitt bearings. Valve train in each engine includes stamped individually mounted overhead rocker arms, push rods actuated with hydraulic lifters (except the 435-hp which has solid lifters). Intake valves are steel alloy. Overall head diameter of intake valves in 300-hp engine

is 1.935-1.945; 350-hp—2.017-2.023; 390- and 400-hp mills—2.060-2.070; and 2.185-2.195 in the 435-hp. Exhaust valves are of steel alloy. Head diameters: 300-hp—1.495-1.505; 350-hp—1.595-1.605; and 1.715-1.725 in all the 427 engines. Rochester 4-barrel downdraft carburetors are used in the 300-, 350- and 390-hp engines while the 400- and 435-hp power plants utilize a Holley triple 2-barrel downdraft system; all have automatic chokes. All Corvette engines in '68 feature Air Injection Reactor equipment to control exhaust emission. **Fuel Pump**—A vapor return line for 300-, 350- and 390-hp engines has been added for 1968 to help prevent vapor lock. **Oil Capacity** — Oil pan in all 327 engines holds 4 quarts of oil; in the 427s capacity is 5 quarts. An extra quart must be added when changing the full-flow oil filter all engines.

Transmissions—The standard 3-Speed transmission available only with the 300-hp engine has 2.54:1 first gear ratio; second is 1.50:1 with third 1.00:1 and reverse is 2.63:1.

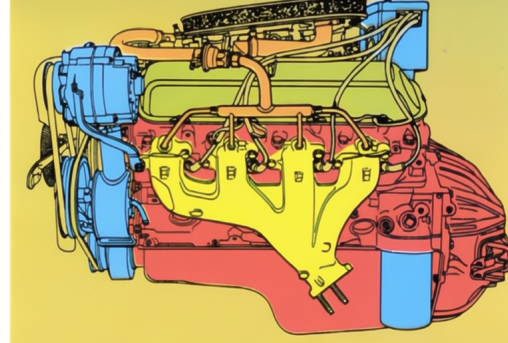
With the 4-Speed ratios are: first—2.52:1; second—1.88:1; third—1.47:1; fourth—1.00:1; reverse—2.59:1. The special 4-Speed close-ratio transmission goes with first—2.20:1; second—1.64:1; third—

1.27:1; fourth—1.00:1; and reverse—2.26:1. All forward gears in manual transmissions are fully synchronized. Gear case in all 4-Speed boxes is aluminum. A single dry disc diaphragm-spring centrifugal clutch is used with all manual transmissions. Turbo Hydra-Matic gear ratios: first—2.48:1; second—1.48:1; third—1.00:1; and reverse—2.08:1.

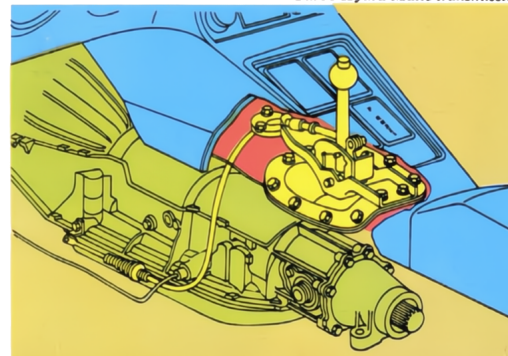
Dimensions—Wheelbase—98.0". Width overall—69.2". Length overall—182.1". Tread—front: 58.3"; rear: 59.0". Height (loaded) overall—Coupe: 47.8"; Convertible 47.9". Curb weight, Coupe and Convertible—3210 and 3220 respectively.

Fuel Tank — Rated capacity for both models is 20 gallons.

To summarize—Underneath the beautiful new style of the 1968 Sting Ray are some mighty solid reasons why Corvette is considered to be one of the best engineered cars in the world. It's a tough car. Body, frame, suspension — as a unit — provide an empathy between the driver and the terrain that can't really be appreciated until you "do it" yourself. Power teams can be tailored to your inclinations. Having disc brakes all around wraps up the total Corvette package very smartly. And for this year a refined rear suspension with a lower rear roll center, plus a lower center of gravity — combined with wider 7" rims and wide-oval tires — adds to the already proven handling potential of America's only true production sports car. Outside, inside and deep down, the '68 Corvette Sting Ray is a special way to go for novice and aficionado alike.



Turbo Hydra-Matic transmission



1968 Corvette Power Teams

Engine Bore & Stroke	HP & Torque at RPM	Carb. & Induction	Comp. Ratio	Cam & Lifters	Transmission	Axle Ratios	
						Std.	Opt.*
Standard Engine							
327-cu.-in. Turbo-Fire V8 4.00 x 3.25	300 @ 5000	4-Barrel	10.0:1	General Performance	3-Speed (2.54:1 Low)	3.36:1	3.08:1
	360 @ 3400	High-Flow		Hydraulic	4-Speed (2.52:1 Low)		
					Turbo Hydra- Matic		
						3.08:1*	- - -
Extra-Cost Engines							
327-cu.-in. Turbo-Fire V8 4.00 x 3.25	350 @ 5800	4-Barrel	11.0:1	High Performance	4-Speed (2.52:1 Low)	3.36:1	3.55:1
	360 @ 3600	High-Flow		Hydraulic	Special 4-Speed (2.20:1 Low)		
					3.70:1		
427-cu.-in. Turbo-Jet V8 4.251 x 3.76	390 @ 5400	4-Barrel	10.25:1	High Performance	4-Speed (2.52:1 Low)	3.08:1*	3.36:1
	460 @ 3600	High-Flow		Hydraulic	Special 4-Speed (2.20:1 Low)		
					Turbo Hydra- Matic		
427-cu.-in. Turbo-Jet V8 4.251 x 3.76	400 @ 5400	Triple 2-Barrel	10.25:1	High Performance	4-Speed (2.52:1 Low)	3.08:1*	3.36:1
	460 @ 3600	High-Flow		Hydraulic	Special 4-Speed (2.20:1 Low)		
					Turbo Hydra- Matic		
427-cu.-in. Turbo-Jet V8 4.251 x 3.76	435 @ 5800	Triple 2-Barrel	11.0:1	Special Performance	Special 4-Speed (2.20:1 Low)	3.55:1*	3.36:1
	460 @ 4000	High-Flow		Mechanical			

*Available only with Positraction.

Strato-ease head restraints (optional) and shoulder belts (standard with Coupe).



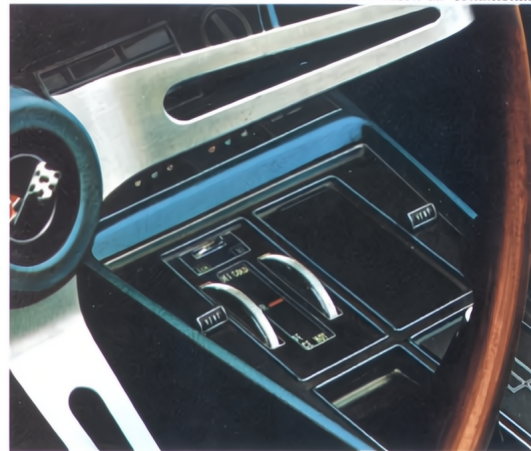
4-Speed fully synchronized transmission.



Special wheel covers and nylon red-stripe tires.



Four-Season air conditioning.



AM/FM radio.



Power windows.



Be yourself!

Corvette Options and Custom Features. A lot of extra-cost features aren't needed to make Corvette driving more enthusiastic, comfortable and convenient. But, just in case — for the sports car connoisseur — here's a list of some special items that can be ordered: Aluminum cylinder heads for the 435-hp engine. Compass. Deck lid luggage carrier adds cargo capacity and sporty looks. Deck lid ski carrier. Deluxe shoulder belts for the Convertible (standard with the Coupe). Emergency road kit with fire extinguisher, tire inflator and sealer, trouble flag, two flares, assorted fuses. Optional engines: 350-hp Turbo-Fire 327 V8; 390-, 400- or 435-hp Turbo-Jet 427 V8 (Special high-domed hood is included when 427-cu.-in. engine is specified). Fire extinguisher. Floor mats of clear vinyl to keep deep-twist carpeting looking new. Folding vinyl-coated soft top for Convertible (black is standard, beige and white available). Four-Season air conditioning, built into Corvette's heater-defroster system, cleans, dehumidifies and blends air to the temperature you desire. Full-transistor ignition system (not available with 300-hp Turbo-Fire 327 V8). Gas cap lock. Hand portable spotlight. Strato-ease head restraints. Genuine leather seat trim. Off-road exhaust system. Positraction rear axle, on slippery or irregular surfaces, sends power to the wheel that has the most traction. Power brakes to reduce braking effort about one-third. Power steering to assist in handling corners and twisting roads. Power windows. Pushbutton AM/FM radio with twin speakers and fixed height rear antenna. Rear window defroster. Removable hardtop for Convertible (may be specified as standard in lieu of folding convertible top). Special purpose front and rear suspension with 435-hp engine. Speed warning indicator — determine your speed limit and set control, then buzz reminds you when you exceed pre-set speed. Special bright metal wheel covers. FM Stereo multiplex. Adjustable steering column for individual driving comfort. Soft-Ray tinted window glass and/or windshield. Transmissions: 4-Speed fully synchronized (2.52:1 low); special 4-Speed fully synchronized close-ratio (2.20:1 low); Turbo Hydra-Matic which operates automatically unless you want to shift it — through three forward gears up to 65 mph. Black vinyl covering for removable hardtop. Visor vanity mirror. Nylon cord wide-oval red stripe or white stripe tires.

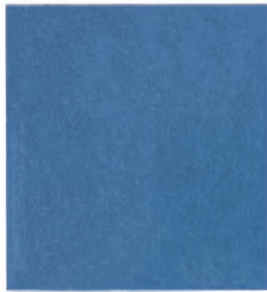
Safety Features Standard for the 1968 Corvette: Energy-absorbing steering column; Seat belts with pushbutton buckles for driver and passenger positions; Shoulder belts for driver and passenger (Coupe only) with pushbutton buckles and convenient stowage provision; Passenger-guard door locks; Four-way hazard warning flasher; Dual master cylinder brake system with warning light and corrosion-resistant brake lines; Latches on folding seat backs; Dual-speed windshield wipers and washer; Outside rear-view mirror; Back-up lights; New side marker lights and parking lights that illuminate with headlights; Padded instrument panel, sun visors, windshield pillars; Reduced-glare instrument panel top, inside windshield moldings, horn button, steering wheel hub, and windshield wiper arms and blades; Inside day-night mirror with deflecting base; Lane-change feature in direction signal control; Safety armrests; Thick-laminate windshield; Soft, low-profile window control knobs; Yielding window control handles; Energy-absorbing instrument panel; Tire safety rim; Safety door latches and hinges; Uniform shift quadrant; Fuel tank and filler pipe security.

Pick a paint!

Colors shown here can only approximate the true Chevrolet paint and fabric colors and are intended only to help visualize the wide selection of colors available. Paint chips and fabric swatches showing the actual colors can be seen at your Chevrolet dealer's showroom.



Tuxedo Black



International Blue



Silverstone Silver



Corvette Bronze



Cordovan Maroon



British Green



Polar White



Rally Red



Safari Yellow



Le Mans Blue

Choose a vinyl!

Try to settle on the one color you like best from this excellent selection. Interiors are color-keyed to exterior colors with deep-twist carpeting also hued to

match. The textured vinyl looks like leather, but if you like genuine hide can be ordered in black, red, medium blue, dark orange, saddle or tobacco. The fabric top for the Convertible can be specified in black, white or beige. You can also order a black vinyl cover for the removable hardtop.



Tobacco



Red



Black



Medium Blue



Dark Blue



Dark Orange



Gunmetal



Saddle



All illustrations and specifications in this literature are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time without notice in prices, colors, equipment, specifications and models, and also to discontinue models. Chevrolet Motor Division, General Motors Corporation, Detroit, Mich. 48202.

Be Smart • Be Sure • Buy Chevrolet



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